

"VARIABLE"	"DESCRIPTION"	"UNITS"	"RANGE_LOW"	"RANGE_HIGH"
"LEGAL_VALUES"				
"ACHNANTHIDIUM"	"Proportion of diatom valves in the genus Achnanthidium"			
"NONE"	0	1		
"COUNTOFORDER"	"Number of non-diatom orders"		"NONE"	0
"CYMBELLA"	"Proportion of diatom valves in the genus Cymbella"		"NONE"	
0	1			
"CYMBELLA_LATO"	"Proportion of diatom valves in the genus Cymbella sensu lato"		"NONE"	
"NONE"	0	1		
"DATE_COL"	"Date of field collection"			
"ENCYONEMA"	"Proportion of diatom valves in the genus Encyonema"			
"NONE"	0	1		
"ENCYONOPSIS"	"Proportion of diatom valves in the genus Encyonopsis"			
"NONE"	0	1		
"NFAMILIES_VALVE"	"Number of diatom families per valve counted"	"NONE"		
0	" "			
"NFAMILY_UNITS"	"Number of non-diatom families per natural unit counted"			
"NONE"	0			
"NGENERA_UNITS"	"Number of non-diatom genera per natural unit counted"			
"NONE"	0			
"NGENERA_VALVE"	"Number of diatom genera per valve counted"	"NONE"		
0				
"NITZSCHIA"	"Proportion of diatom valves in the genus Nitzschia"			
"NONE"	0	1		
"NONRSATAXA_CELLS"	"Number of NRSA taxa based on cells counted"			
"NONE"	0			
"NONRSATAXA_UNITS"	"Number of NRSA taxa per natural unit counted"			
"NONE"	0			
"NORDER_UNITS"	"Number of non-diatom orders per natural unit counted"			
"NONE"	0			
"NORDERS_VALVE"	"Number of diatom orders per valve counted"	"NONE"		
0				
"NTAXA_DIAT"	"Number of diatom taxa counted"	"NONE"	0	
"PI_DISTMMISENS"	"Proportion of diatom Individuals characteristically found at minimally disturbed sites in the Western EMAP project"			
"NONE"	0	1		
"PI_L1PTLSENS"	"Proportion of diatom individuals in low nutrient taxa based on PTLSENS trait"	"NONE"	0	1
"PI_NUTMMISENS"	"Proportion of diatom individuals in low nutrient taxa based on NUTMMISENS"	"NONE"	0	1
"PICOL_BIOA"	"Proportion of algal biovolume as colonial taxa"			
"NONE"	0	1		
"PICOL_CELA"	"Proportion of algal cells as colonial taxa"	"NONE"		
0	1			
"PIFIL_BIOA"	"Proportion of algal biovolume as filamentous taxa"			
"NONE"	0	1		
"PIFIL_CELA"	"Proportion of algal cells as filamentous taxa"			
"NONE"	0	1		
"PIHADNT_VDIA"	"Proportion of diatom valves in highly adnate taxa"			
"NONE"	0	1		
"PIHMOTD_VDIA"	"Proportion of valves of diatoms that are in taxa characterized as highly motile in sediments"	"NONE"	0	1
				" "

"PIMOTD_VDIA"	"Proportion of diatom valves as motile taxa"	"NONE"		
0	1			
"PIPLNK_BIOA"	"Proportion of algal biovolume as planktonic taxa"			
"NONE"	0	1		
"PIPLNK_CELA"	"Proportion of cells of all algae that are in Taxa characteristically found in plankton"	"NONE"	0	1
"PIPLNK_VDIA"	"Proportion of diatom valves as planktonic taxa"			
"NONE"	0	1	"	
"PISENS_ACHNANTHACEAE"	"Proportion of Individuals in Taxa characteristically found at minimally disturbed sites in the Western EMAP project in the diatom family Achnanthaceae"	"NONE"	0	1
"PISENS_DIATOMACEAE"	"Proportion of Individuals in Taxa characteristically found at minimally disturbed sites in the Western EMAP project in the diatom family Diatomaceae"	"NONE"	0	1
"PISENS_NAVICULACEAE"	"Proportion of Individuals in Taxa characteristically found at minimally disturbed sites in the Western EMAP project in the diatom family Naviculaceae"	"NONE"	0	1
"PISTLK_VDIA"	"Proportion of valves of diatoms that are in taxa characterized as highly stalked"	"NONE"	0	1
"PITOL_NAVICULACEAE"	"Proportion of Individuals in Taxa characteristically found at highly disturbed sites in the Western EMAP project in the diatom family Naviculaceae"	"NONE"	0	1
"PITOL_NITZSCHACEAE"	"Proportion of Individuals in Taxa characteristically found at highly disturbed sites in the Western EMAP project in the diatom family Nitzschiaceae"	"NONE"	0	1
"PLANOTHIDIUM"	"Proportion of diatom valves in the genus Planothidium"			
"NONE"	0	1		
"PLIVE"	"Percent live diatoms"	"NONE"	0	100
"PT_DISTMMISENS"	"Proportion of diatom taxa characteristically found at minimally disturbed sites in the Western EMAP project"	"NONE"	0	
1	"			
"PT_L1PTLSENS"	"Proportion of diatom taxa in low nutrient taxa based on PTLSENS trait"	"NONE"	0	1
"PT_NUTMMISENS"	"Proportion of diatom taxa considered low nutrient taxa based on NUTMMISENS"	"NONE"	0	1
"PTSENS_ACHNANTHACEAE"	"Proportion of taxa characteristically found at minimally disturbed sites in the Western EMAP project in the diatom family Achnanthaceae"	"NONE"	0	1
"PTSENS_DIATOMACEAE"	"Proportion of taxa characteristically found at minimally disturbed sites in the Western EMAP project in the diatom family Diatomaceae"	"NONE"	0	1
"PTSENS_NAVICULACEAE"	"Proportion of taxa characteristically found at minimally disturbed sites in the Western EMAP project in the diatom family Naviculaceae"	"NONE"	0	1
"PTTOL_NAVICULACEAE"	"Proportion of taxa characteristically found at highly disturbed sites in the Western EMAP project in the diatom family Naviculaceae"	"NONE"	0	1
"PTTOL_NITZSCHACEAE"	"Proportion of taxa characteristically found at highly disturbed sites in the Western EMAP project in the diatom family Nitzschiaceae"	"NONE"	0	1
"S_N_DIAT"	"Number of NRSA diatom taxa per valve counted"	"NONE"		
0	"			
"SAMPLE_CAT"	"Sample category (Primary/Duplicate/Filter blank)"			

"SAMPLE_ID" "Sample ID number." "NONE" ""
"SAMPLE_TYPE" "Sample type"
"SHANDIV_CELLS" "Shannon diversity of non-diatom algal assemblages based
on cells counted" "NONE" 0
"SHANDIV_DIAT" "Shannon diversity of diatom assemblages" "NONE"
0 ""
"SHANDIV_UNITS" "Shannon diversity of non-diatom algal assemblages based
on natural units counted" "NONE" 0
"SITE_ID" "Site identification code"
"UID" "Unique site visit ID"
"VISIT_NO" "Visit number for that year"
"YEAR" "Sampling year"
"PERI_FIELDCOM" "Field comment"